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| (21) International Application Number: PCT/US99/12105 (22) International Filing Date: 28 May 1999 (28.05.99) (30) Priority Data: 60/087,596 1 June 1998 (01.06.98) US (71) Applicants (for all designated States except US): CHIRON CORPORATION [US/US]; 4560 Horton Street - R440, Emeryville, CA 94608 (US). FIDIA ADVANCED BIOPOLYMERS SRL [IT/IT]; Via De'Carpentieri, 3, I-72100 Brindisi (IT). (72) Inventors; and (75) Inventors/Applicants (for US only): O'HAGAN, Derek [GB/US]; Chiron Corporation, 4560 Horton Street - R400, Emeryville, CA 94608 (US). PAVESIO, Alessandro [IT/IT]; Via Decorati al Valore Civile, 159, I-35100 Padova (IT). (74) Agents: HARBIN, Alisa, A.; Chiron Corporation, Intellectual Property - R440, P.O. Box 8097, Emeryville, CA 94662-8097 (US) et al. | | (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| (54) Title: USE OF HYALURONIC ACID POLYMERS FOR MUCOSAL DELIVERY OF VACCINE ANTIGENS AND ADJUVANTS | | |
| (57) Abstract Compositions are provided which include hyaluronic acid derivatives in combination with vaccine antigens, and optionally adjuvants, for mucosal delivery. Also provided are methods of making the compositions, as well as methods of immunization using the same. | | |

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